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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/571,746	03/14/2006	Paul Royston Harvey	PHNL031073US	1207
38107 7590 04/03/2007 PHILIPS INTELLECTUAL PROPERTY & STANDARDS 595 MINER ROAD			EXAMINER	
			SHRIVASTAV, BRIJ B	
CLEVELAND, OH 44143		ART UNIT	PAPER NUMBER	
			2859	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	04/03/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/571,746	HARVEY, PAUL ROYSTON				
Office Action Summary	Examiner	Art Unit				
	Brij B. Shrivastav	2859				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 14 March 2006.						
,						
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-18 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	i					
6) Claim(s) <u>1-18</u> is/are rejected.						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	r election requirement.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119		•				
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 3/14/06. 	Paper No(s)/Mail Double 5) Notice of Informal F					

Art Unit: 2859

DETAILED ACTION

Claim Rejections - 35 USC § 101

1 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 11-14 are rejected under 35 USC 101, a process is statutory only if it requires physical acts to be performed outside the computer independent of and following the steps to be performed by a programmed computer, where those acts involve the manipulation of tangible physical objects and result in the object having a different physical attribute or structure (see MPEP 2106). Further, a claim is limited to a practical application when the method, as claimed produces a concrete, tangible and useful result; i.e. the method recites a step or act of producing something that is concrete, tangible and useful. Referring to the "Interim Guide lines for Examination of Patent Applications for Patent Subject Matter Eligibility" in determining whether the claim is for a practical application, the focus is not on whether the steps taken to achieve a particular result are useful, tangible and concrete, but rather that the final result achieved by the claimed invention is "useful, tangible and concrete". In the present case (independent claim 11) recites calculating a shift of a resonance frequency based on a difference of the first and second phases, and not the final result it is intended to monitor and correct the drift in the magnetic field, as the field drift will cause MR image distortion.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

Art Unit: 2859

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In the instant case, the independent claims 1, 11 and 15 are indefinite as in each case the claim does not specifically recite the final result the invention is intended to achieve; i.e. monitoring and correction of the magnetic field drift, which will lead to a distortion free MR image.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-118 are rejected under 35 U.S.C. 102(b) as being anticipated by Hinks et al (US 6,294,913).

As regards to claim 1, Hinks et al teach a method of monitoring a magnetic field drift of a magnetic resonance imaging apparatus, the method including steps of performing a first data acquisition of first magnetic resonance signal caused by first excitation, and performing a second data acquisition of second magnetic resonance signal caused by second excitation (figures 1 and 3). Further, Hinks et al teach determining a first and a second phase of each of the two magnetic resonance signals,

Art Unit: 2859

in the echo time after each of the signal, respectively, and from the two determined phases determine the shift of a resonance frequency (figures 3, 5 and 6).

As regards to claims 11 and 15, Hinks et al teach the recitation of each one of these two claims, and each of the claim is rejected on the same basis as has been stated above to reject claim 1.

As regards to claims 2-10, 12-14 and 16-18, Hinks et al further teach scanning the k-space to determine the phase change in the time domain in each case using various echo sequences to compensate the field drift using a programmed computer (column 2-4, column 5-7, line 40- 67, 1-67 and 1-59).

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brij B. Shrivastav whose telephone number is 571-272-2250. The examiner can normally be reached on 7 AM to 4 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego F. F. Gutierrez can be reached on 571-272-2245. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Art Unit: 2859

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

March 20, 2007

Brij B Shrivastav Primary Examiner Art Unit 2859
